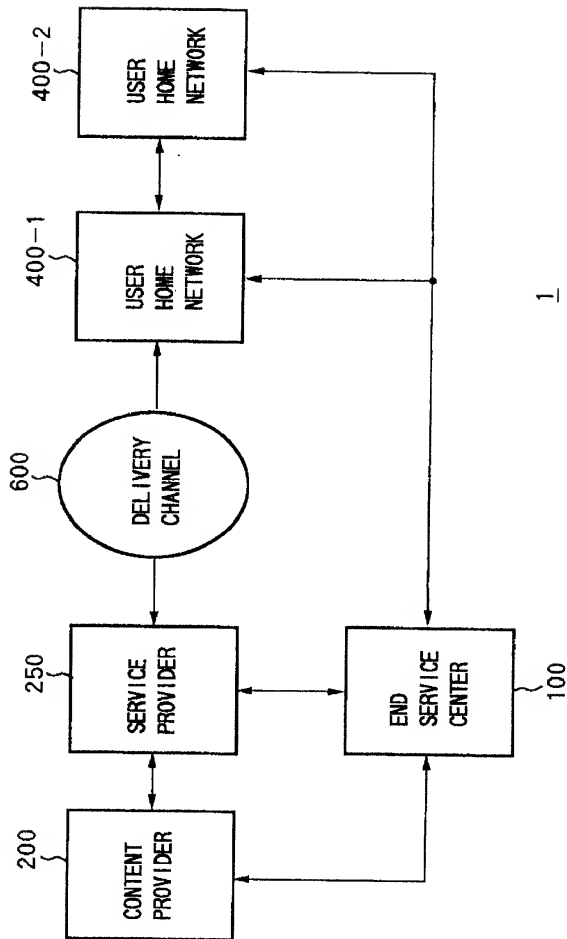


FIG. 1



001903558\*000

FIG.2

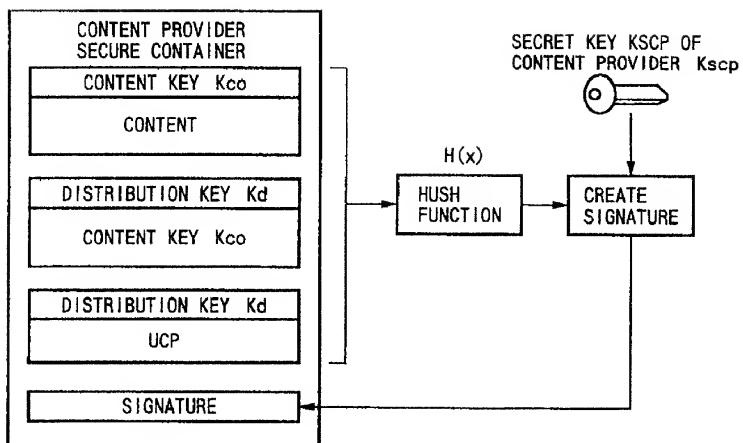


FIG.3

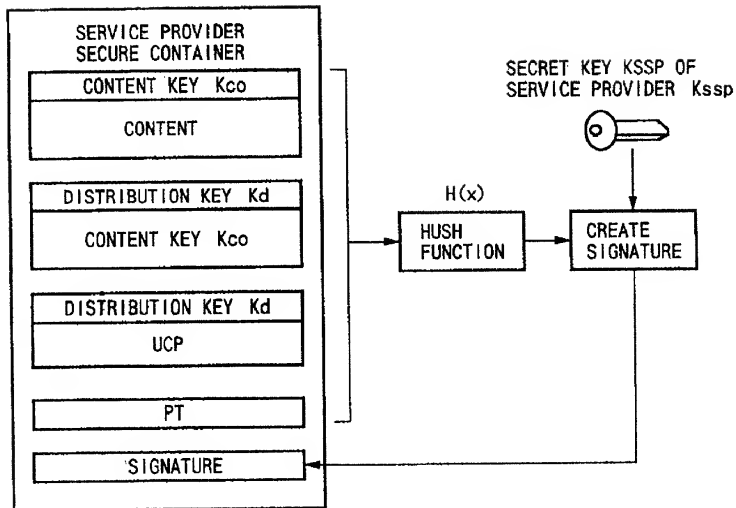


FIG. 4

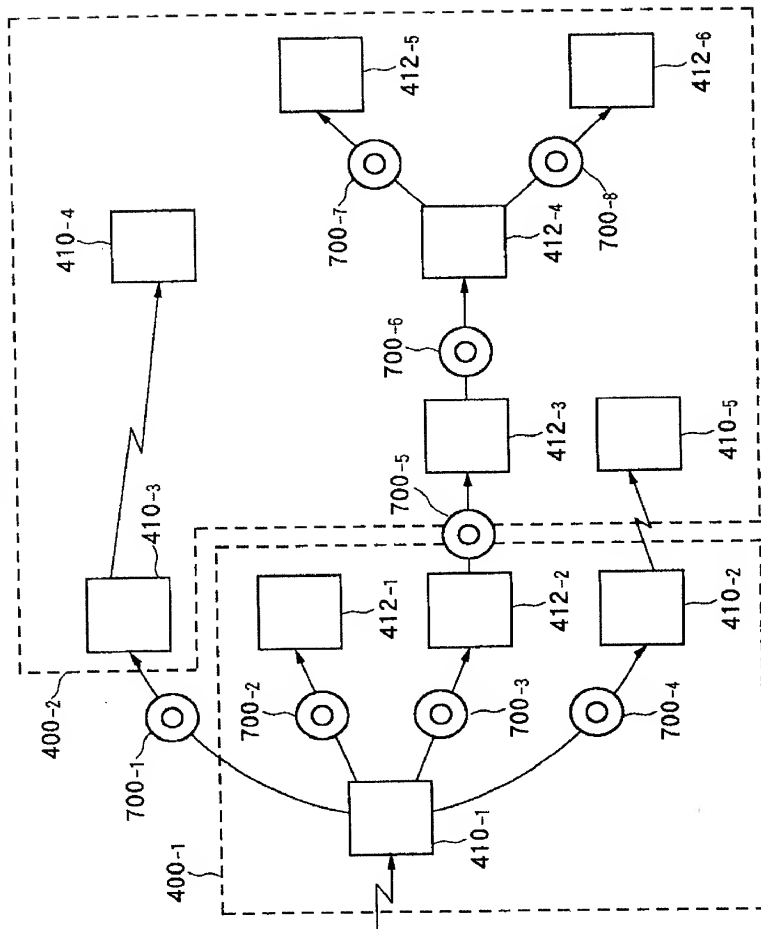
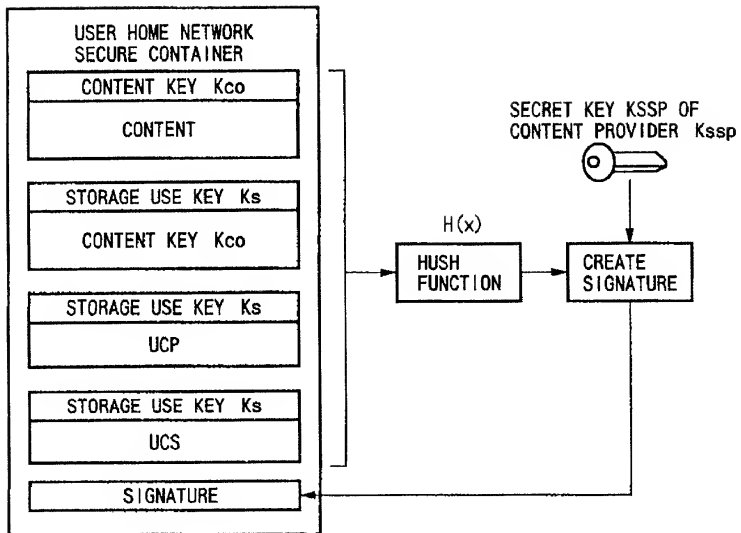


FIG.5



1.  $\frac{1}{2}$  2.  $\frac{1}{3}$  3.  $\frac{1}{4}$  4.  $\frac{1}{5}$  5.  $\frac{1}{6}$  6.  $\frac{1}{7}$  7.  $\frac{1}{8}$  8.  $\frac{1}{9}$  9.  $\frac{1}{10}$  10.  $\frac{1}{11}$  11.  $\frac{1}{12}$  12.  $\frac{1}{13}$  13.  $\frac{1}{14}$  14.  $\frac{1}{15}$  15.  $\frac{1}{16}$  16.  $\frac{1}{17}$  17.  $\frac{1}{18}$  18.  $\frac{1}{19}$  19.  $\frac{1}{20}$  20.  $\frac{1}{21}$  21.  $\frac{1}{22}$  22.  $\frac{1}{23}$  23.  $\frac{1}{24}$  24.  $\frac{1}{25}$  25.  $\frac{1}{26}$  26.  $\frac{1}{27}$  27.  $\frac{1}{28}$  28.  $\frac{1}{29}$  29.  $\frac{1}{30}$  30.  $\frac{1}{31}$  31.  $\frac{1}{32}$  32.  $\frac{1}{33}$  33.  $\frac{1}{34}$  34.  $\frac{1}{35}$  35.  $\frac{1}{36}$  36.  $\frac{1}{37}$  37.  $\frac{1}{38}$  38.  $\frac{1}{39}$  39.  $\frac{1}{40}$  40.  $\frac{1}{41}$  41.  $\frac{1}{42}$  42.  $\frac{1}{43}$  43.  $\frac{1}{44}$  44.  $\frac{1}{45}$  45.  $\frac{1}{46}$  46.  $\frac{1}{47}$  47.  $\frac{1}{48}$  48.  $\frac{1}{49}$  49.  $\frac{1}{50}$  50.  $\frac{1}{51}$  51.  $\frac{1}{52}$  52.  $\frac{1}{53}$  53.  $\frac{1}{54}$  54.  $\frac{1}{55}$  55.  $\frac{1}{56}$  56.  $\frac{1}{57}$  57.  $\frac{1}{58}$  58.  $\frac{1}{59}$  59.  $\frac{1}{60}$  60.  $\frac{1}{61}$  61.  $\frac{1}{62}$  62.  $\frac{1}{63}$  63.  $\frac{1}{64}$  64.  $\frac{1}{65}$  65.  $\frac{1}{66}$  66.  $\frac{1}{67}$  67.  $\frac{1}{68}$  68.  $\frac{1}{69}$  69.  $\frac{1}{70}$  70.  $\frac{1}{71}$  71.  $\frac{1}{72}$  72.  $\frac{1}{73}$  73.  $\frac{1}{74}$  74.  $\frac{1}{75}$  75.  $\frac{1}{76}$  76.  $\frac{1}{77}$  77.  $\frac{1}{78}$  78.  $\frac{1}{79}$  79.  $\frac{1}{80}$  80.  $\frac{1}{81}$  81.  $\frac{1}{82}$  82.  $\frac{1}{83}$  83.  $\frac{1}{84}$  84.  $\frac{1}{85}$  85.  $\frac{1}{86}$  86.  $\frac{1}{87}$  87.  $\frac{1}{88}$  88.  $\frac{1}{89}$  89.  $\frac{1}{90}$  90.  $\frac{1}{91}$  91.  $\frac{1}{92}$  92.  $\frac{1}{93}$  93.  $\frac{1}{94}$  94.  $\frac{1}{95}$  95.  $\frac{1}{96}$  96.  $\frac{1}{97}$  97.  $\frac{1}{98}$  98.  $\frac{1}{99}$  99.  $\frac{1}{100}$  100.  $\frac{1}{101}$  101.  $\frac{1}{102}$  102.  $\frac{1}{103}$  103.  $\frac{1}{104}$  104.  $\frac{1}{105}$  105.  $\frac{1}{106}$  106.  $\frac{1}{107}$  107.  $\frac{1}{108}$  108.  $\frac{1}{109}$  109.  $\frac{1}{110}$  110.  $\frac{1}{111}$  111.  $\frac{1}{112}$  112.  $\frac{1}{113}$  113.  $\frac{1}{114}$  114.  $\frac{1}{115}$  115.  $\frac{1}{116}$  116.  $\frac{1}{117}$  117.  $\frac{1}{118}$  118.  $\frac{1}{119}$  119.  $\frac{1}{120}$  120.  $\frac{1}{121}$  121.  $\frac{1}{122}$  122.  $\frac{1}{123}$  123.  $\frac{1}{124}$  124.  $\frac{1}{125}$  125.  $\frac{1}{126}$  126.  $\frac{1}{127}$  127.  $\frac{1}{128}$  128.  $\frac{1}{129}$  129.  $\frac{1}{130}$  130.  $\frac{1}{131}$  131.  $\frac{1}{132}$  132.  $\frac{1}{133}$  133.  $\frac{1}{134}$  134.  $\frac{1}{135}$  135.  $\frac{1}{136}$  136.  $\frac{1}{137}$  137.  $\frac{1}{138}$  138.  $\frac{1}{139}$  139.  $\frac{1}{140}$  140.  $\frac{1}{141}$  141.  $\frac{1}{142}$  142.  $\frac{1}{143}$  143.  $\frac{1}{144}$  144.  $\frac{1}{145}$  145.  $\frac{1}{146}$  146.  $\frac{1}{147}$  147.  $\frac{1}{148}$  148.  $\frac{1}{149}$  149.  $\frac{1}{150}$  150.  $\frac{1}{151}$  151.  $\frac{1}{152}$  152.  $\frac{1}{153}$  153.  $\frac{1}{154}$  154.  $\frac{1}{155}$  155.  $\frac{1}{156}$  156.  $\frac{1}{157}$  157.  $\frac{1}{158}$  158.  $\frac{1}{159}$  159.  $\frac{1}{160}$  160.  $\frac{1}{161}$  161.  $\frac{1}{162}$  162.  $\frac{1}{163}$  163.  $\frac{1}{164}$  164.  $\frac{1}{165}$  165.  $\frac{1}{166}$  166.  $\frac{1}{167}$  167.  $\frac{1}{168}$  168.  $\frac{1}{169}$  169.  $\frac{1}{170}$  170.  $\frac{1}{171}$  171.  $\frac{1}{172}$  172.  $\frac{1}{173}$  173.  $\frac{1}{174}$  174.  $\frac{1}{175}$  175.  $\frac{1}{176}$  176.  $\frac{1}{177}$  177.  $\frac{1}{178}$  178.  $\frac{1}{179}$  179.  $\frac{1}{180}$  180.  $\frac{1}{181}$  181.  $\frac{1}{182}$  182.  $\frac{1}{183}$  183.  $\frac{1}{184}$  184.  $\frac{1}{185}$  185.  $\frac{1}{186}$  186.  $\frac{1}{187}$  187.  $\frac{1}{188}$  188.  $\frac{1}{189}$  189.  $\frac{1}{190}$  190.  $\frac{1}{191}$  191.  $\frac{1}{192}$  192.  $\frac{1}{193}$  193.  $\frac{1}{194}$  194.  $\frac{1}{195}$  195.  $\frac{1}{196}$  196.  $\frac{1}{197}$  197.  $\frac{1}{198}$  198.  $\frac{1}{199}$  199.  $\frac{1}{200}$  200.  $\frac{1}{201}$  201.  $\frac{1}{202}$  202.  $\frac{1}{203}$  203.  $\frac{1}{204}$  204.  $\frac{1}{205}$  205.  $\frac{1}{206}$  206.  $\frac{1}{207}$  207.  $\frac{1}{208}$  208.  $\frac{1}{209}$  209.  $\frac{1}{210}$  210.  $\frac{1}{211}$  211.  $\frac{1}{212}$  212.  $\frac{1}{213}$  213.  $\frac{1}{214}$  214.  $\frac{1}{215}$  215.  $\frac{1}{216}$  216.  $\frac{1}{217}$  217.  $\frac{1}{218}$  218.  $\frac{1}{219}$  219.  $\frac{1}{220}$  220.  $\frac{1}{221}$  221.  $\frac{1}{222}$  222.  $\frac{1}{223}$  223.  $\frac{1}{224}$  224.  $\frac{1}{225}$  225.  $\frac{1}{226}$  226.  $\frac{1}{227}$  227.  $\frac{1}{228}$  228.  $\frac{1}{229}$  229.  $\frac{1}{230}$  230.  $\frac{1}{231}$  231.  $\frac{1}{232}$  232.  $\frac{1}{233}$  233.  $\frac{1}{234}$  234.  $\frac{1}{235}$  235.  $\frac{1}{236}$  236.  $\frac{1}{237}$  237.  $\frac{1}{238}$  238.  $\frac{1}{239}$  239.  $\frac{1}{240}$  240

VERSION (VERSION NO.)	
CONTENT ID FOR MANAGING ASSET MANAGEMENT AT CONTENT PROVIDER	
SIGNATURE (CONTENT PROVIDER SECRET KEY)	
GLOBAL UNIQUE CONTENT ID FOR MANAGEMENT OF THIRD PARTY RELIABLE ORGANIZATIONS	
SIGNATURE (SECRET KEY OF THIRD PARTY RELIABLE ORGANIZATIONS)	
COUNTRY, AREA CODE	
CONTENT PROVIDER INFORMATION	
AUTHORING DATE	
ISSUER INFORMATION: THIRD PARTY RELIABLE ORGANIZATION INFORMATION	
ISSUE DATE	
EXPIRATION DATE (VALIDITY)	
COMMUNICATION ADDRESS OF THIRD PARTY RELIABLE ORGANIZATION	
DISTRIBUTION SERVICE PROVIDER INFORMATION	
TYPE INFORMATION OF CONTENT ① MOVIE/MUSIC/PROGRAM/CM/PR MATERIAL	
TYPE INFORMATION OF CONTENT ② ORIGINAL/SECONDARY USAGE/EDITED WORK	
TYPE INFORMATION OF EXPRESSION OF CONTENT ① MOVING PICTURE IMAGE, STATIC IMAGE, AUDIO, ETC.	
TYPE INFORMATION OF EXPRESSION OF CONTENT ② SIGNAL PARAMETERS, COMPRESSION METHOD	
HANDLING AND CONTROL INFORMATION FROM USAGE SPACE EXAMINATION	
ACCESS CONTROL INFORMATION FROM CONTENT PROVIDER	
ACCESS CONTROL INFORMATION FROM USER (INITIAL VALUE)	
HANDLING POLICY CONCERNING MILEAGE AND DISCOUNT COUPON	
RECOMMEND SETTLEMENT MEANS: THIRD PARTY RELIABLE ORGANIZATION/ELECTRONIC MONEY SETTLEMENT	
HANDLING AND CONTROL INFORMATION FOR LISTENING TO DEMO SAMPLE (SEMI-PUBLIC PARAMETERS)	
SALE MANAGER OF CONTENT (PRODUCT) / SALE COUNTRY, AREA CODE	
USAGE CONTROL	
PRICE IN EACH TYPE OF PURCHASE IS WHOLESALE PRICE	
PROMOTION USE FREE SERVICE PERIOD/NUMBER OF TIMES	
RE-DISTRIBUTION	
REPRODUCTION CHARGE PAY-PER-USE	UPPER LIMIT OF COPIES (-->SELL THROUGH) PRICE OF ONE COPY/TWO COPIES/ ....N COPIES
SELL THROUGH	
① COMPLETE	
② TIME LIMITED	
③ PAY PER PLAY N	
SELL THROUGH-SCMS	
COPY FREE/ONE COPY/NO COPY /ONE COPY HAS BEEN MADE	
RECORDING CHARGE PAY PER SCMS COPY N	
COPY CONTROL TICKET PURCHASED NUMBER	
PAY PER COPY	
PAY PER BLOCK	
COMPATIBILITY WITH SCMS APPARATUS	
① EMD -->SCMS	
② SCMS -->EMD	

# FIG.7

## USAGE CONTROL STATUS(UCS)

CONTENT ID FOR MANAGING ASSET MANAGEMENT AT CONTENT PROVIDER	
SIGNATURE(CONTENT PROVIDER SECRET KEY)	
GLOBAL UNIQUE CONTENT ID FOR MANAGEMENT OF THIRD PARTY RELIABLE ORGANIZATION	
SIGNATURE(SECRET KEY OF THIRD PARTY RELIABLE ORGANIZATION)	
SERVICE PROVIDER INFORMATION	
DISTRIBUTION SERVICE NAME	
CONTENT ID FOR MANAGEMENT OF DISTRIBUTION SERVICE AT SERVICE PROVIDER	
SIGNATURE(SERVICE PROVIDER SECRET KEY)	
ISSUER INFORMATION HNG-ID/SAM_ID/MEDIA SAM_ID	
PURCHASER INFORMATION USER ID	
SETTLEMENT MEANS SELECTED BY PURCHASER THIRD PARTY RELIABLE ORGANIZATION/PASS FROM HAND TO HAND (ELECTRONIC MONEY)	
PURCHASER SETTLEMENT MEANS INFORMATION ①BANK, REGISTERED ACCOUNT ②CREDIT CARD COMPANY ③CREDIT CARD NUMBER	
PURCHASE TRACE INFORMATION	
(FIRST PURCHASE)	PURCHASE DATE/PURCHASER INFORMATION/ ISSUER INFORMATION PURCHASE APPARATUS INFORMATION/PURCHASE MEDIUM INFORMATION, ETC.
(SECOND PURCHASE)	PURCHASE DATE/PURCHASER INFORMATION/ ISSUER INFORMATION PURCHASE APPARATUS INFORMATION/PURCHASE MEDIUM INFORMATION, ETC.
...	...
(N-TH PURCHASE)	PURCHASE DATE/PURCHASER INFORMATION/ ISSUER INFORMATION PURCHASE APPARATUS INFORMATION/PURCHASE MEDIUM INFORMATION, ETC.
CONTENT SALE PRICE PT(PRICE TAG)	
COUNTRY, AREA CODE AT PURCHASE AND USAGE	
USAGE SPACE EXAMINATION INFORMATION(ID LIST OF EACH ENTITY)	
DISCOUNT INFORMATION POSSESSED BY PURCHASER IN DISTRIBUTION SERVICE (MILEAGE/DISCOUNT COUPONS)	
DISCOUNT INFORMATION POSSESSED BY PURCHASER AND USER IN PURCHASE AND USAGE OF CONTENT UNIT(MILEAGE/DISCOUNT COUPON)	
USAGE CONTROL	
REPRODUCTION CHARGE PAY-PER-USE	
UPPER LIMIT OF COPIES(-->SELL THROUGH) PRICE OF ONE COPY/TWO COPIES/....N COPIES	

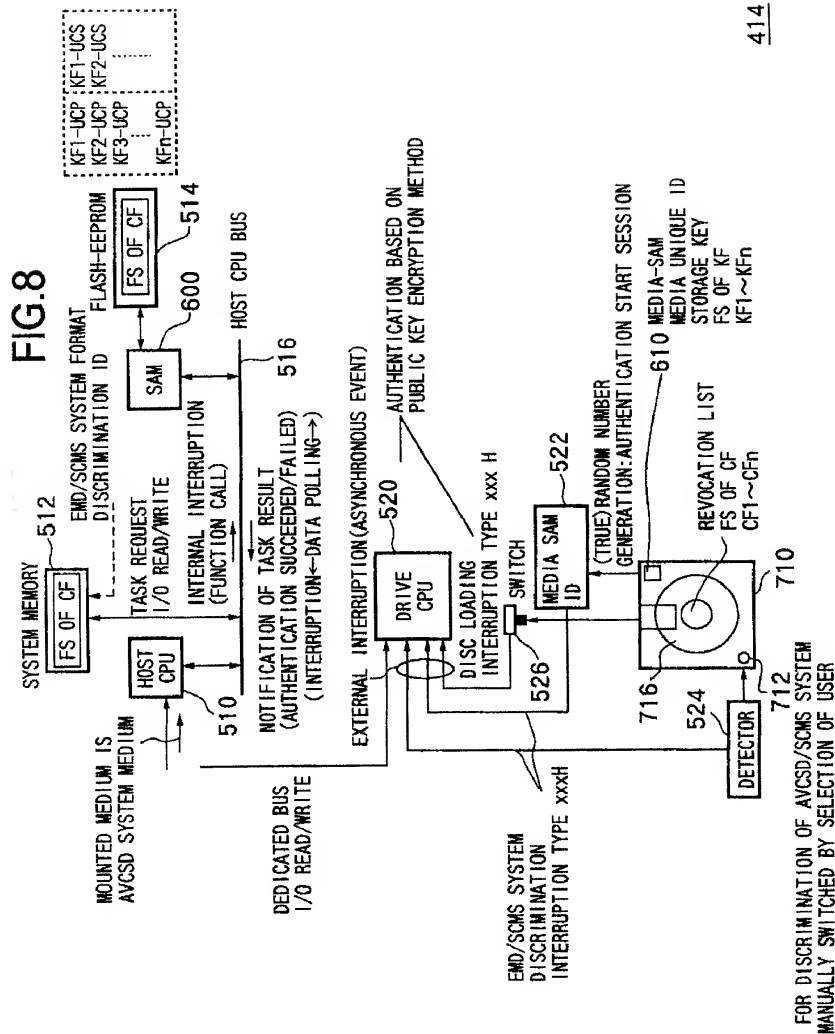
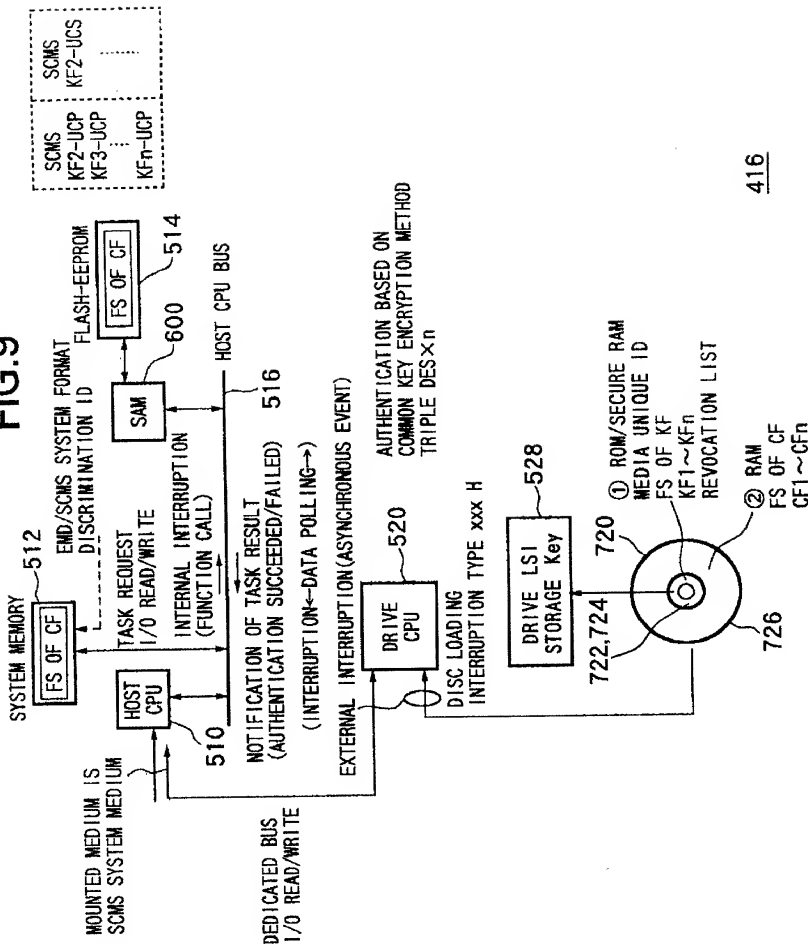
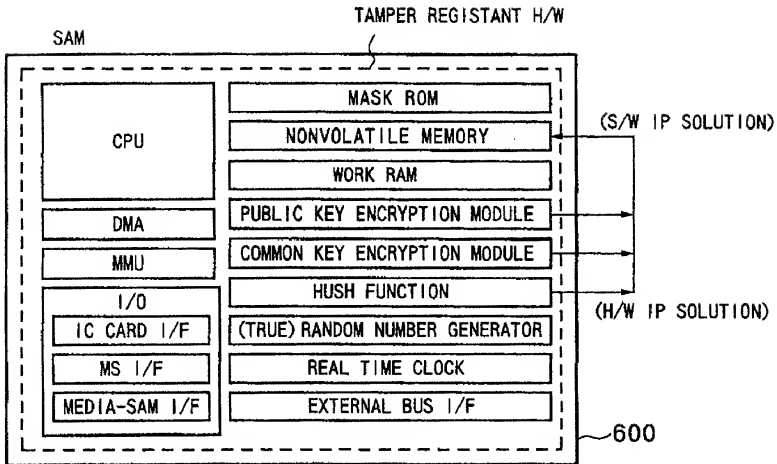




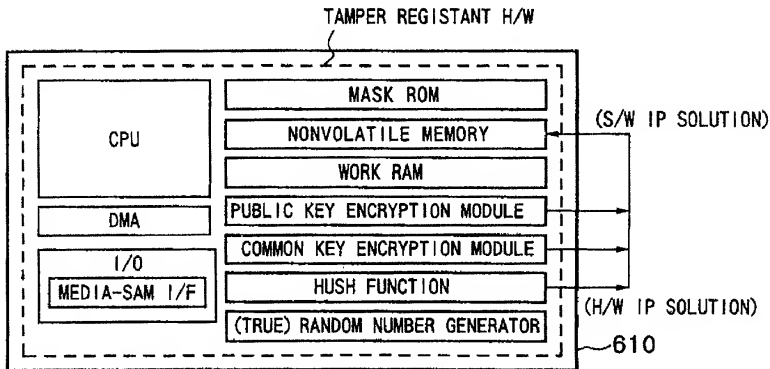
FIG. 9



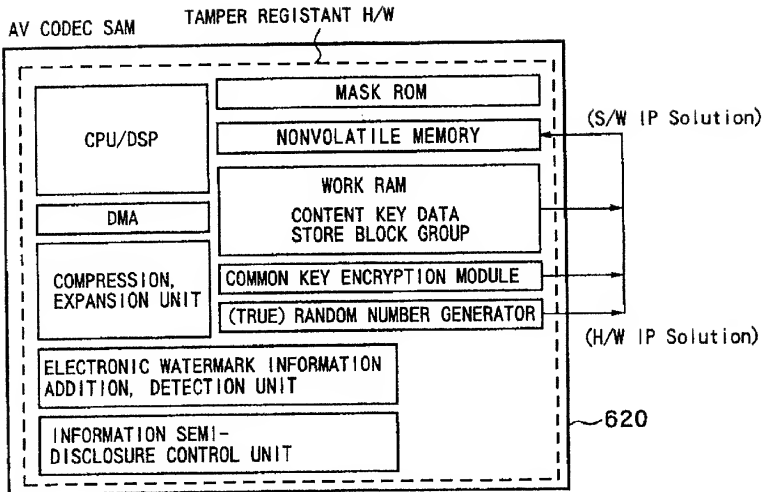
# FIG.10



# FIG.11



# FIG.12



# FIG.13

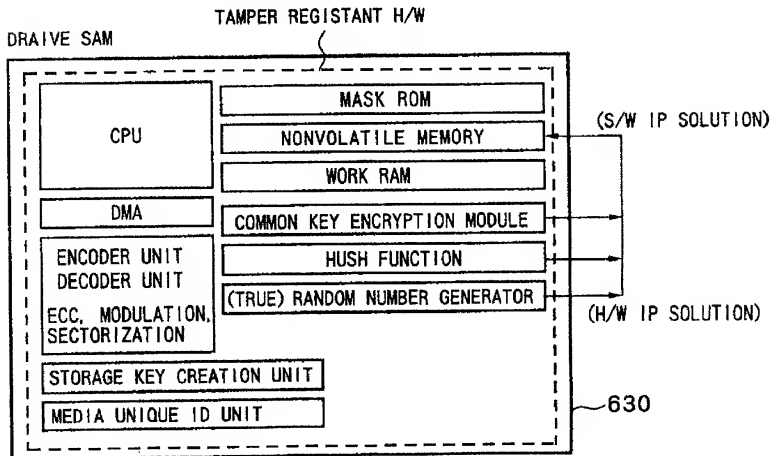
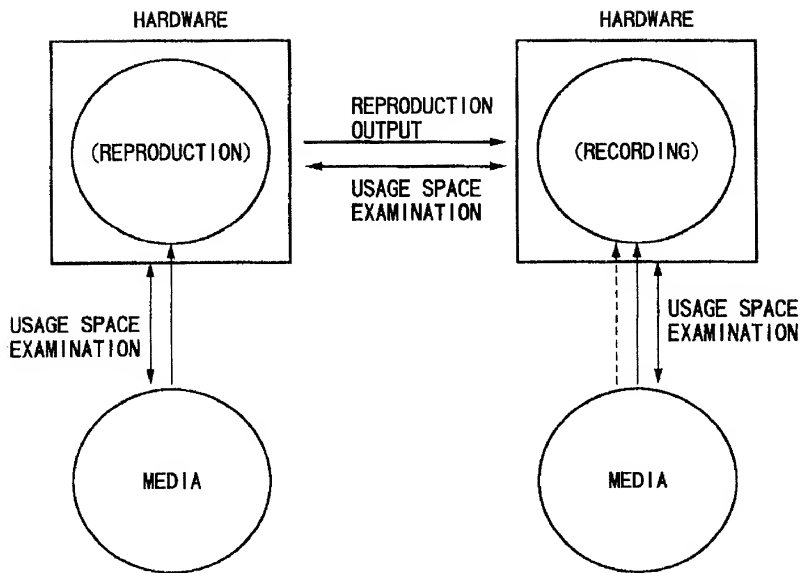


FIG.14



# FIG.15

## USAGE SPACE TABLE

CONTENT USAGE CONTROL POLICY UCP/UCS, U-TOC	
EMD SYSTEM CONTENT/SCMS SYSTEM CONTENT U-TOC RIGHT CLEARING OF CONTENT UCP SIGNAL PARAMETERS, COMPRESSION CODEC METHOD UCP DISPLAY FUNCTION OF RECOMMENDED MONITOR UCP PERSONAL INFORMATION (PURCHASER INFORMATION) UCS RIGHT CLEARING (PROFIT DISTRIBUTION) DATA UCS	
CONCERNED ENTITY ID CONTENT PROVIDER ID SERVICE PROVIDER ID THIRD PARTY RELIABLE ORGANIZATION ID	
REPRODUCTION APPARATUS HNG-ID	MEDIUM MOUNTED IN REPRODUCTION APPARATUS
EMD SYSTEM APPARATUS/SCMS SYSTEM APPARATUS BIT STREAM RECORDER OR/NOT SIGNAL PARAMETERS COMPRESSION CODEC METHOD DISPLAY CAPABILITY OF MONITOR CONNECTED FORMAT CONVERSION FUNCTION EXISTS/NOT EXIST (WHERE IT EXISTS, WHICH CONVERSION FUNCTION IS HELD?) EG. 1BIT, 1.2882M → 16BIT, 44.1K RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY APPARATUS ID ID OF APPARATUS DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION	EMD SYSTEM MEDIUM/SCMS SYSTEM MEDIUM MEDIUM TYPE ①TYPE OF MEDIUM ②ROM/RAM RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY MEDIUM ID ID OF MEDIUM DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION
RECORDING APPARATUS HNG-ID	MEDIUM MOUNTED IN RECORDING APPARATUS
EMD SYSTEM APPARATUS/SCMS SYSTEM APPARATUS BIT STREAM RECORDER OR/NOT SIGNAL PARAMETERS COMPRESSION CODEC METHOD DISPLAY CAPABILITY OF MONITOR CONNECTED PARAMETER CONVERSION FUNCTION EXISTS/NOT EXIST (WHERE IT EXISTS, WHICH CONVERSION FUNCTION IS HELD?) EG. 1BIT, 1.2882M → 16BIT, 44.1K RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY APPARATUS ID ID OF APPARATUS DEVELOPING MANUFACTURER ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION	EMD SYSTEM MEDIUM/SCMS SYSTEM MEDIUM MEDIUM TYPE ①TYPE OF MEDIUM ②ROM/RAM RIGHT CLEARING (PROFIT DISTRIBUTION) USE DATA ID OF CONCERNED ENTITY MEDIUM ID ID OF MEDIUM (DEVELOPMENT MAKER) ID OF OTHER CONCERNED ENTITY TO WHICH PROFIT SHOULD BE DISTRIBUTED ID OF REGISTERED THIRD PARTY RELIABLE ORGANIZATION



FIG.17

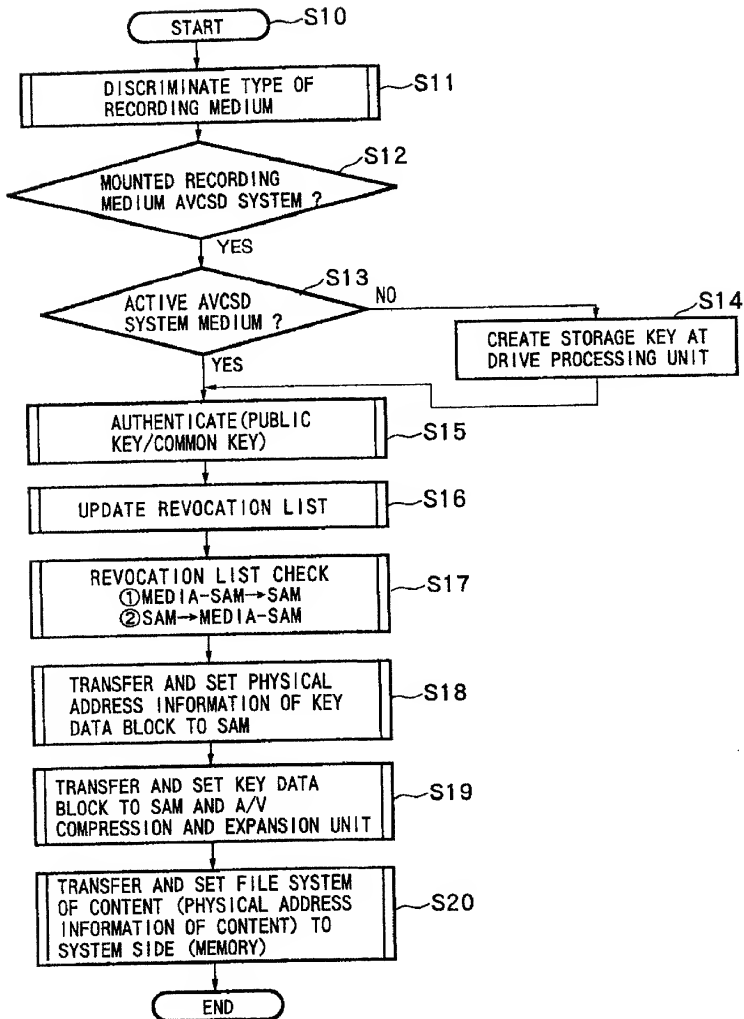


FIG.18

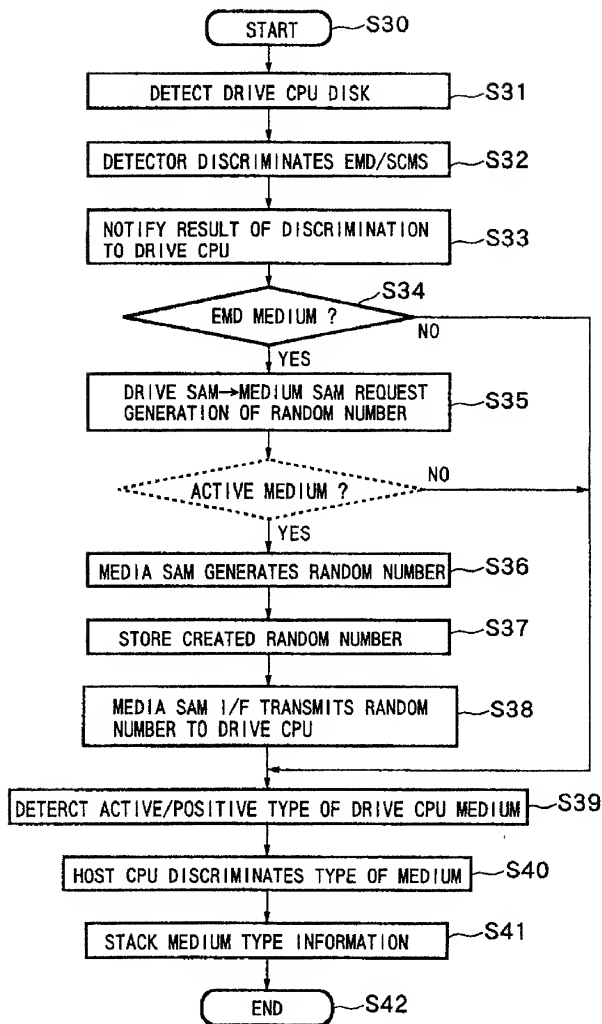




FIG.19

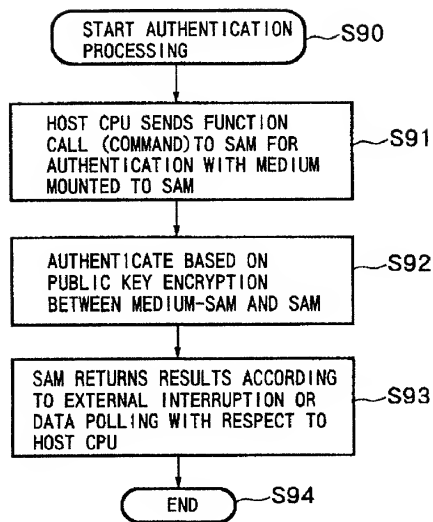


FIG.20

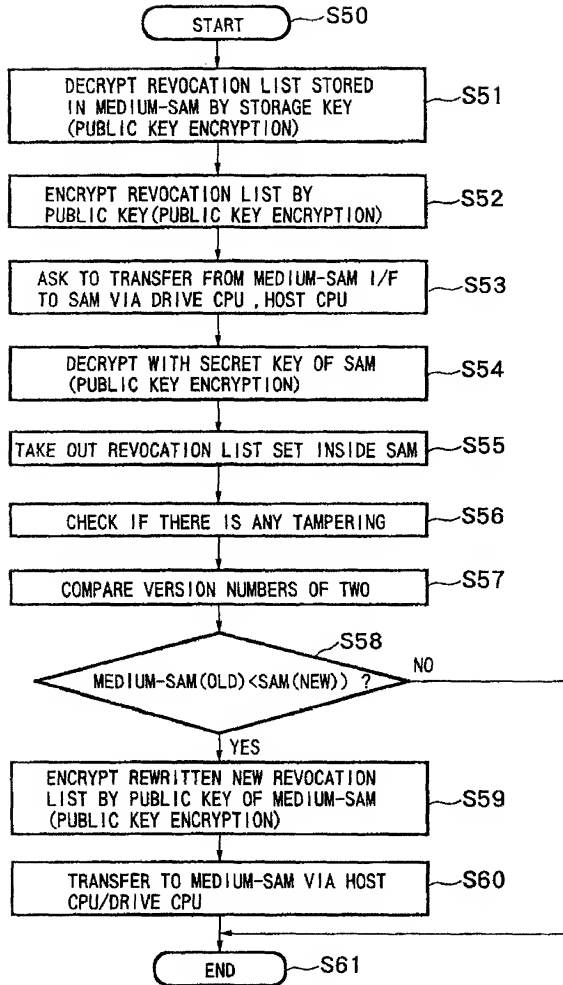


FIG.21

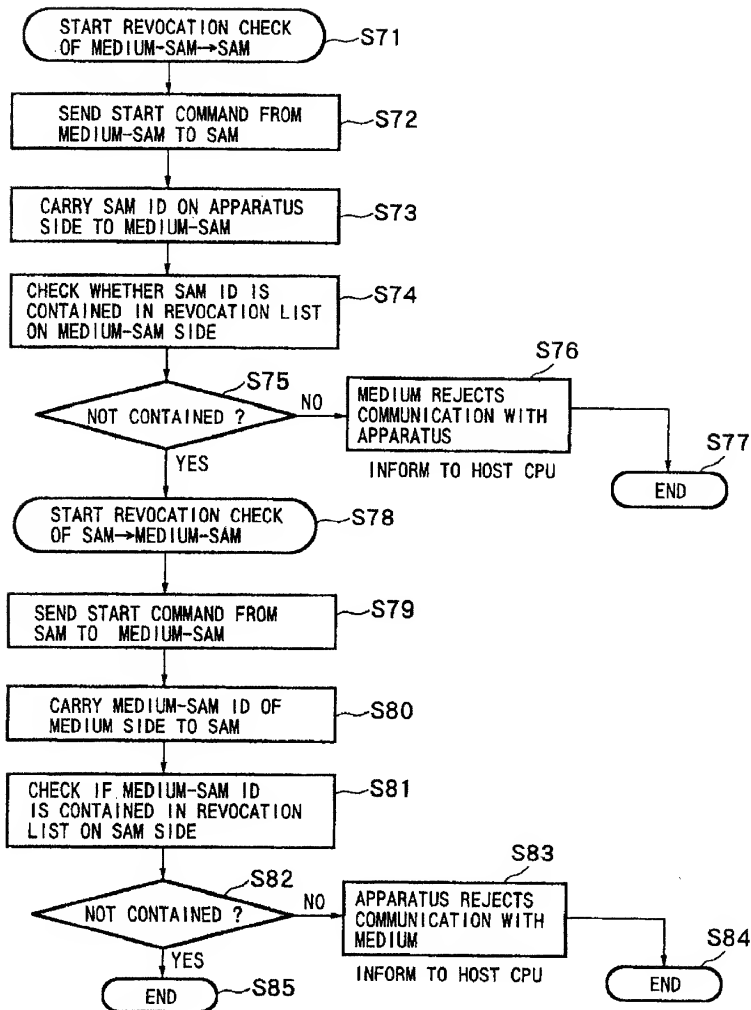


FIG.22

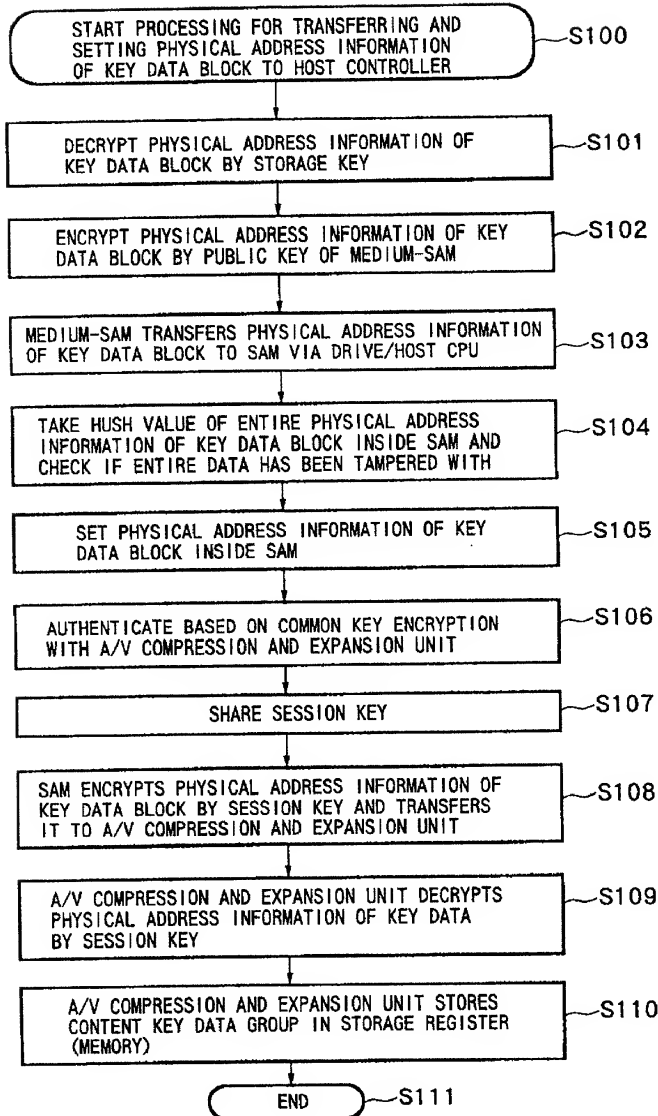


FIG.23

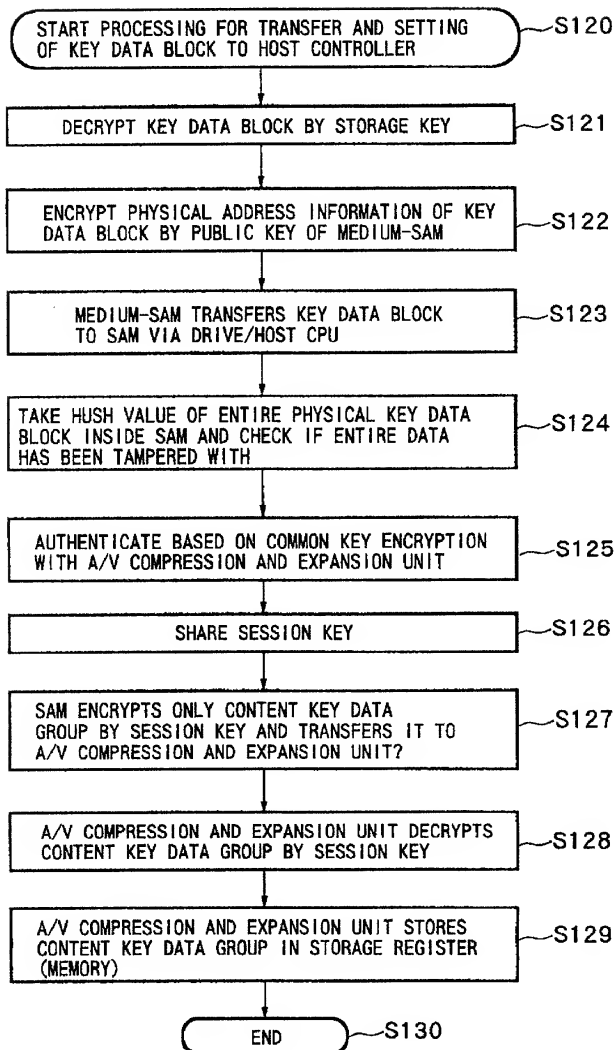


FIG.24

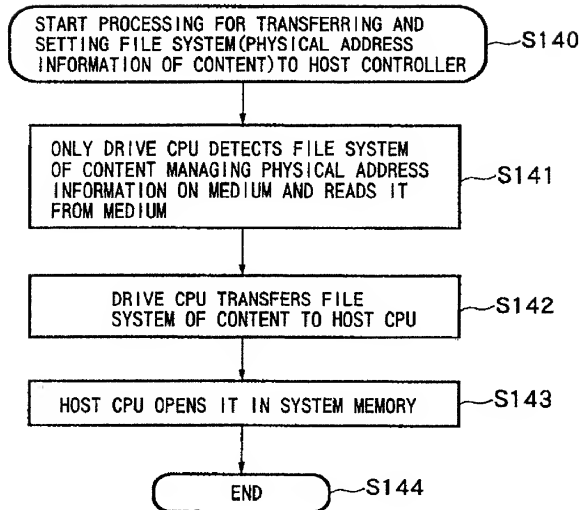


FIG.25

FUNCTION CALL

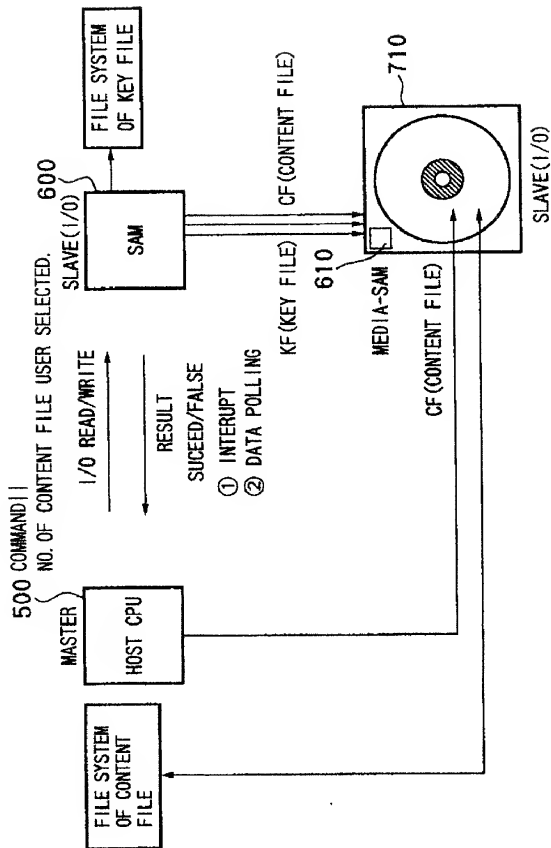


FIG.26

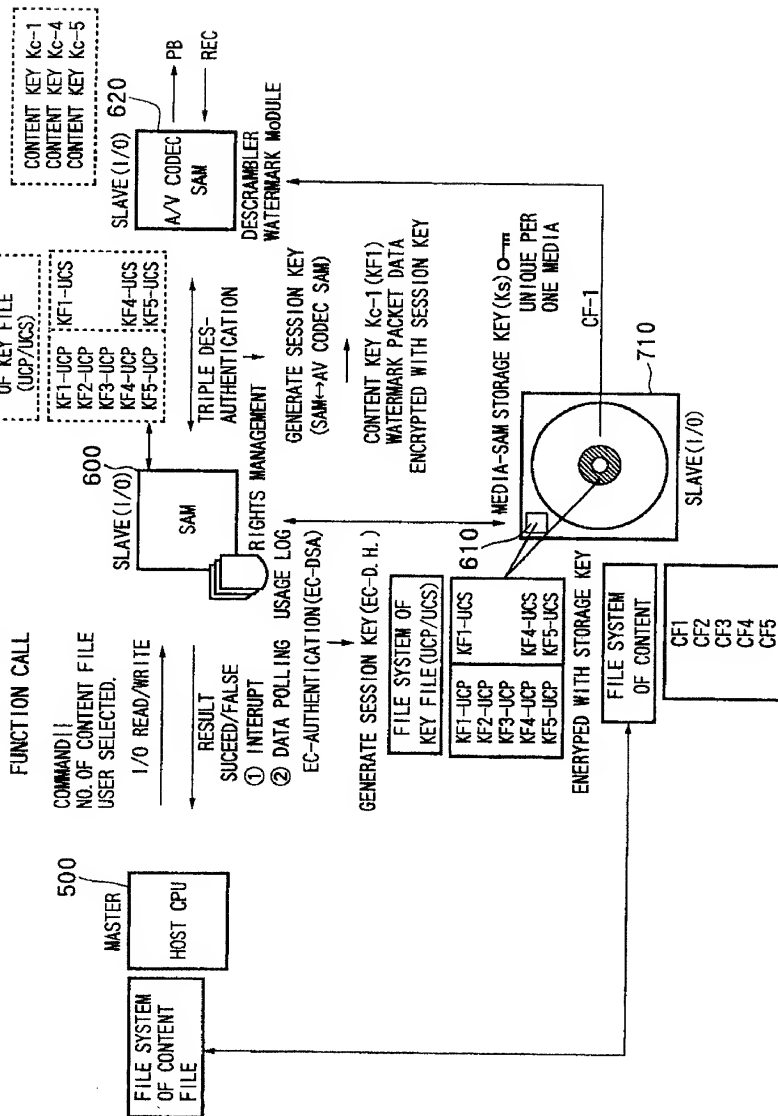






FIG. 28

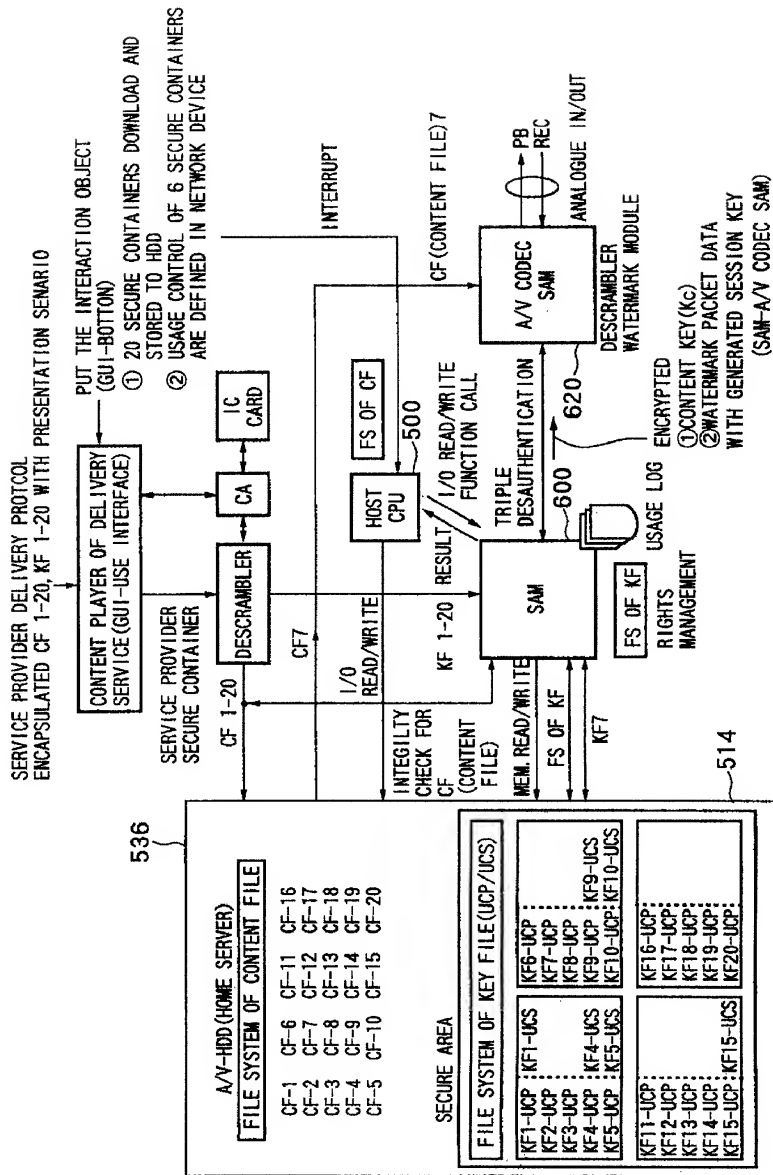
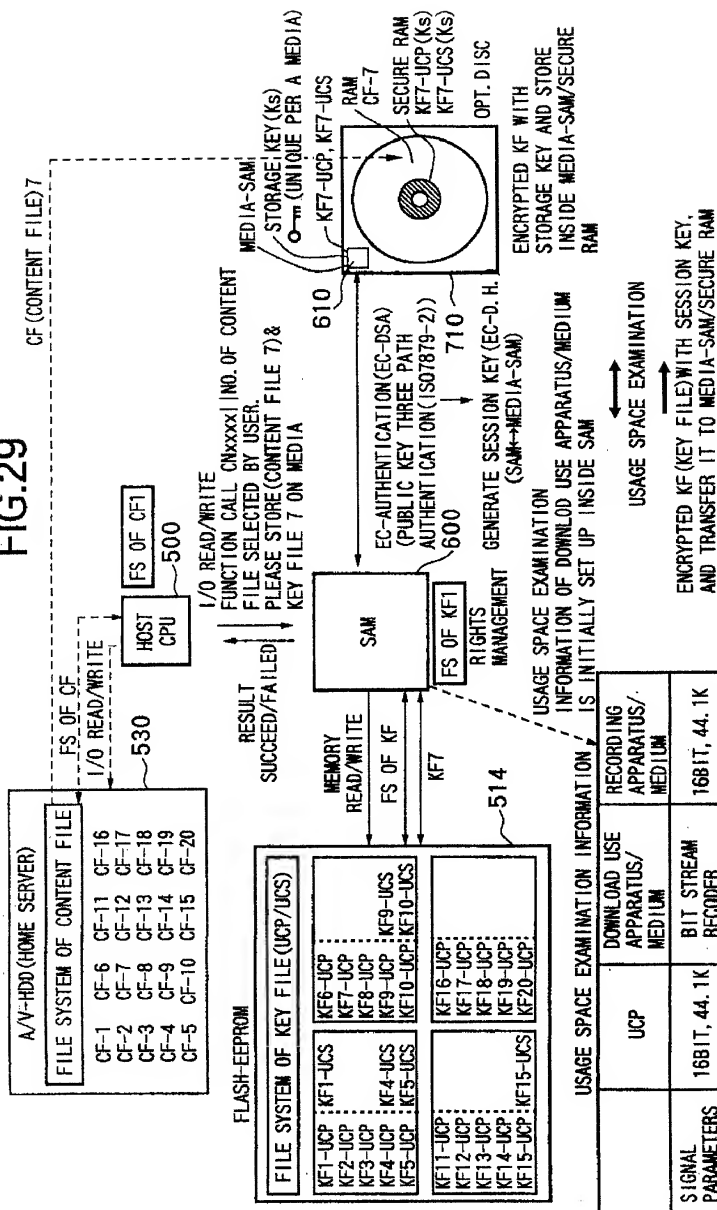


FIG. 29



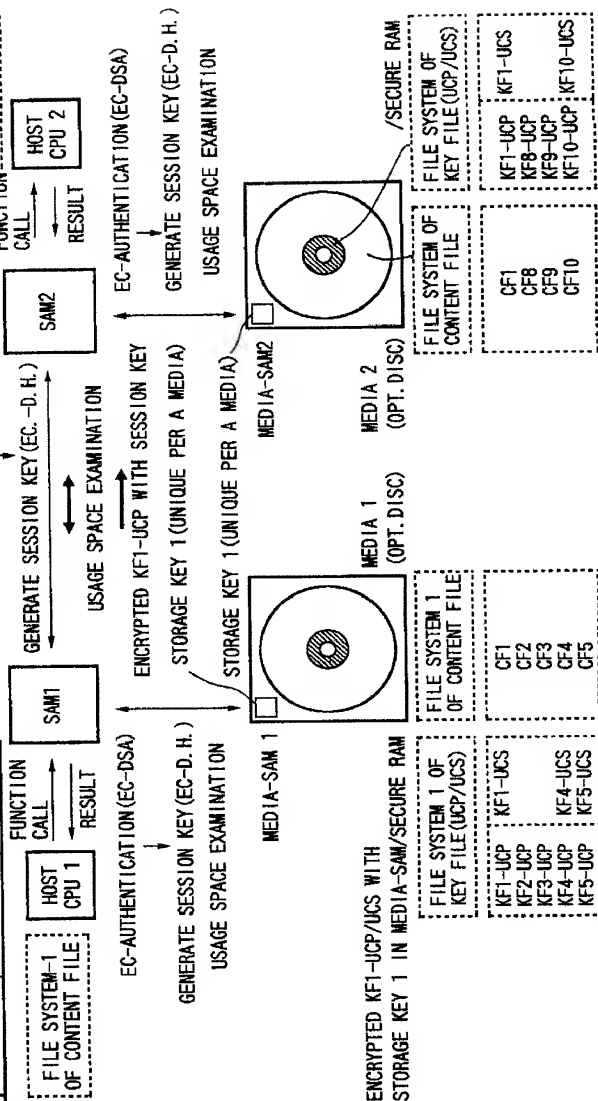






USAGE SPACE EXAMINATION INFORMATION

	UCP	REPRODUCTION APPARATUS/ MEDIUM	RECORDING APPARATUS/ MEDIUM
SIGNAL PARAMETERS	16BIT, 44.1K	16BIT, 44.1K	16BIT, 44.1K
COMPRESSION METHOD	ATRAC3	ATRAC3	ATRAC3
CONVERSION PROCESSING		NOT EXIST	NOT EXIST



ENCIPHERED KF1-UCP/UCS WITH  
STORAGE KEY 1 IN MEDIA-SAM/SECURE RAM

USAGE SPACE EXAMINATION INFORMATION

	UCP	REPRODUCTION RECORDING APPARATUS/MEDIUM
SIGNAL PARAMETERS	16BIT, 44.1K	16BIT, 44.1K
COMPRESSION METHOD	ATRAC3	ATRAC3
CONVERSION PROCESSING	NOT EXIST	NOT EXIST

FIG. 34

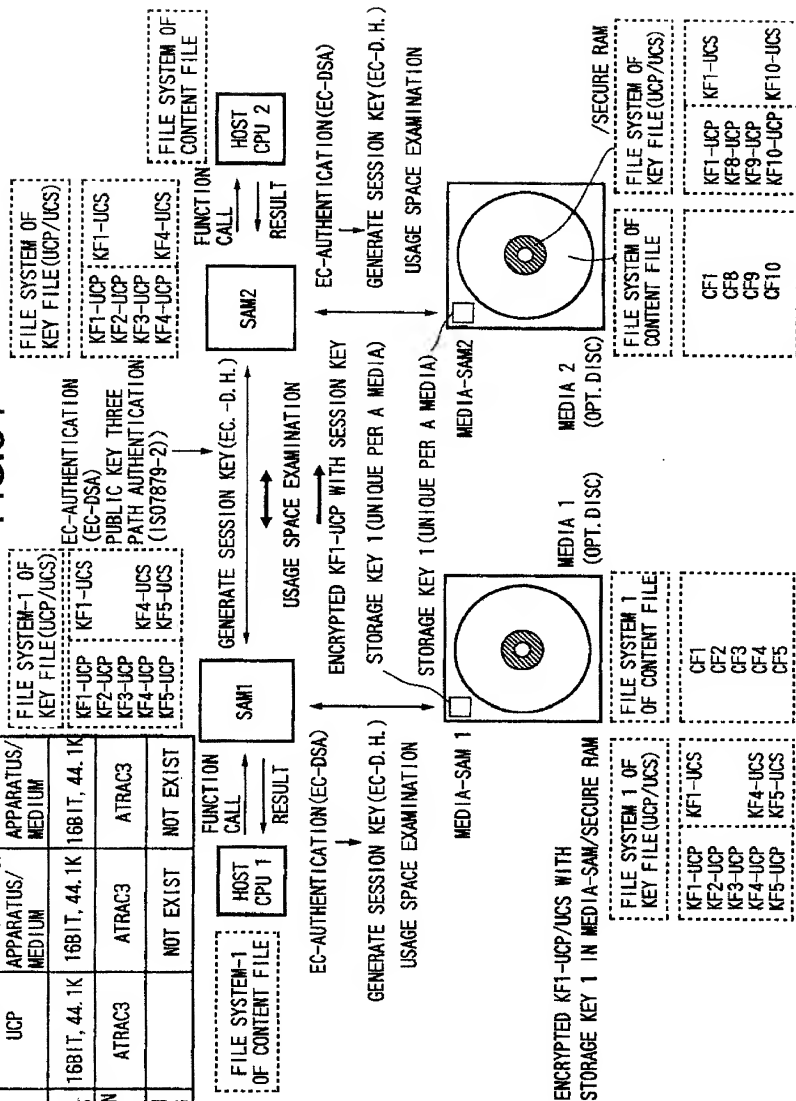
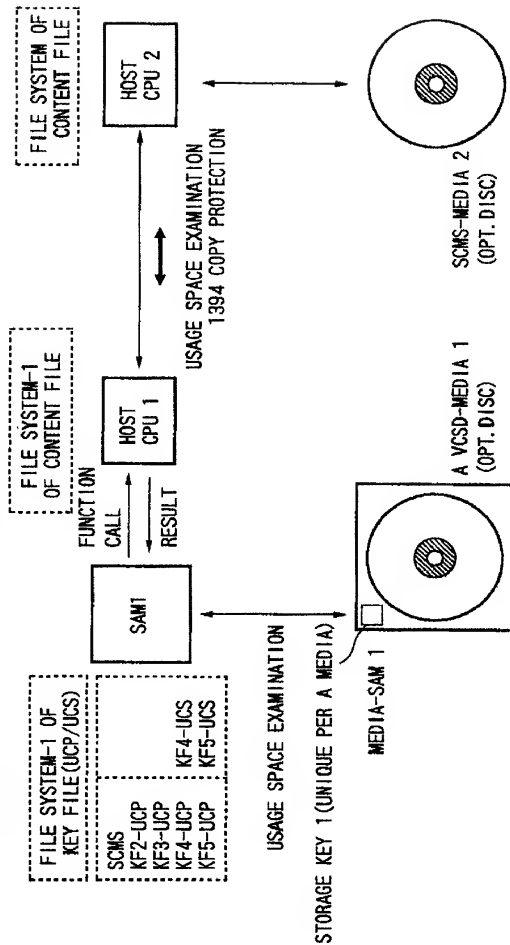




FIG. 35

USAGE SPACE EXAMINATION INFORMATION

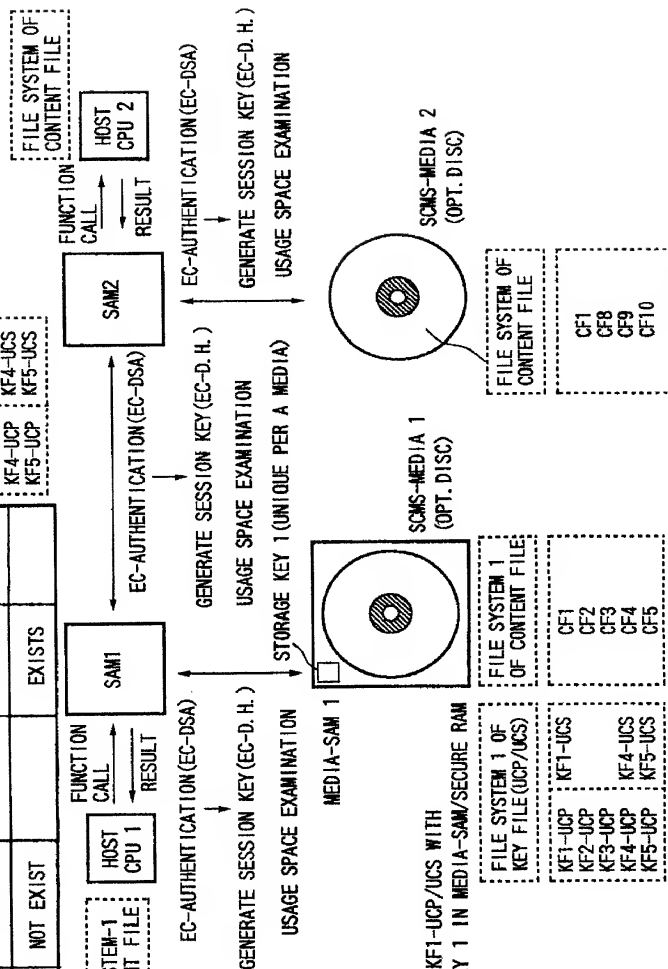
	UCP	REPRODUCTION APPARATUS/ MEDIUM	RECORDING APPARATUS/ MEDIUM
SIGNAL PARAMETERS	1B1T, 2.8224M	1B1T, 2.8224M	1B1T, 44.1K SCMS
COMPRESSION METHOD	DST	DST	NOT EXIST
CONVERSION PROCESSING		EXISTS	NOT EXIST



USAGE SPACE EXAMINATION INFORMATION

	UCP	REPRODUCTION APPARATUS	RECORDING MEDIUM	RECORDING MEDIUM
	AVCSD	AVCSD		SCMS
SIGNAL PARAMETERS	16BIT, 44.1K	16BIT, 44.1K		
COMPRESSION METHOD	ATRAC3	ATRAC3		
CONVERSION PROCESSING		NOT EXIST		EXISTS

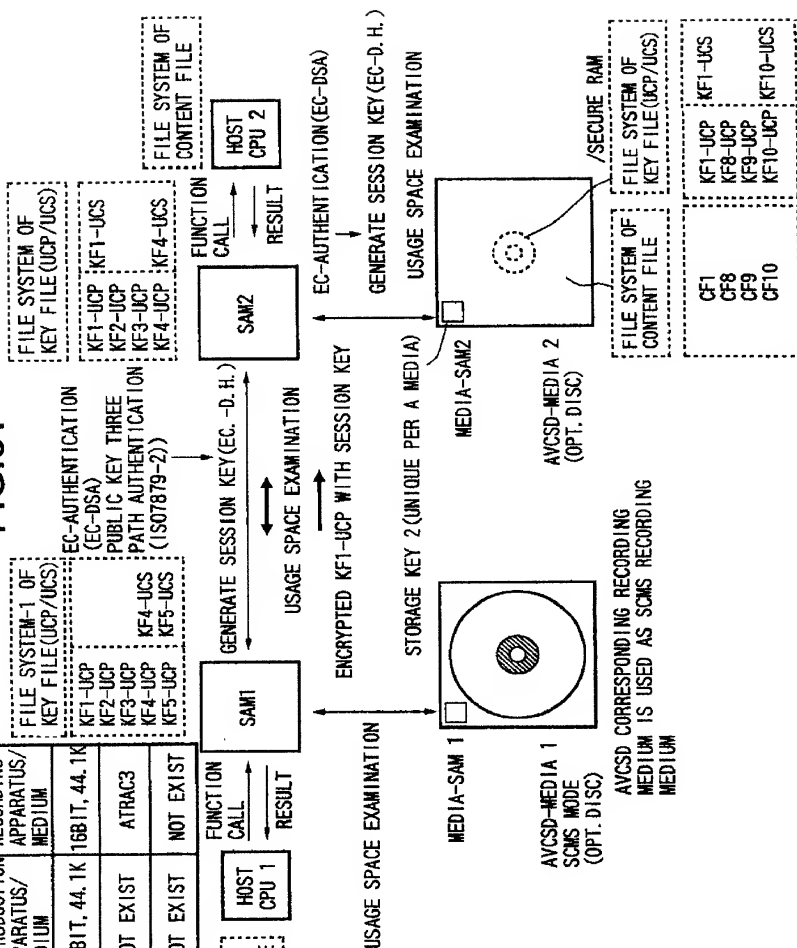
FIG. 36



USAGE SPACE EXAMINATION INFORMATION

REPRODUCTION APPARATUS/ MEDIUM	UCP	RECORDING APPARATUS/ MEDIUM
SIGNAL PARAMETERS	16BIT, 44, 1K	16BIT, 44, 1K
COMPRESSION METHOD	NOT EXIST	ATRAC3
CONVERSION PROCESSING	NOT EXIST	NOT EXIST

FIG. 37



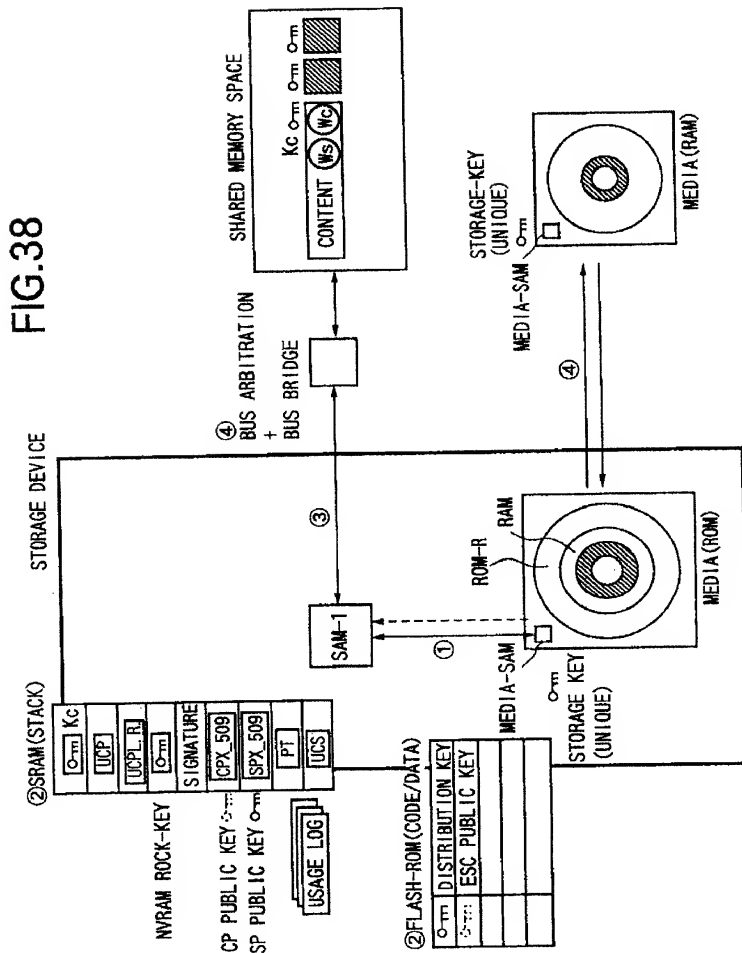


FIG. 39

